

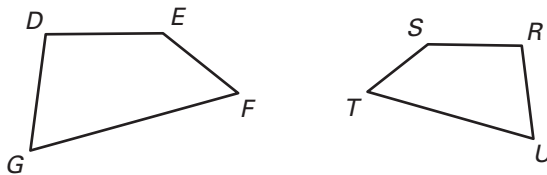
# Practice

For use with pages 287–292

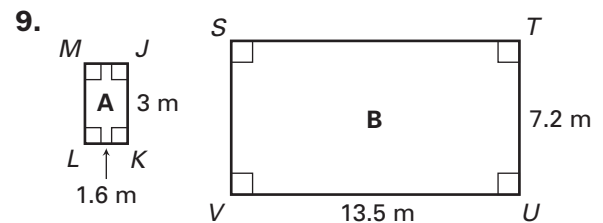
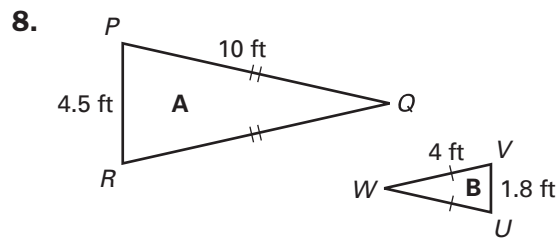
Given  $EFGH \sim JKLM$ , tell whether the statement is **true** or **false**.

1.  $\angle F$  and  $\angle J$  are corresponding angles.
2.  $\overline{GH}$  and  $\overline{LM}$  are corresponding sides.
3.  $\angle H$  and  $\angle M$  are corresponding angles.
4.  $\overline{HE}$  and  $\overline{MJ}$  are corresponding sides.
5.  $\overline{FG}$  and  $\overline{KL}$  are corresponding sides.
6.  $\angle G$  and  $\angle K$  are corresponding angles.

7. Given  $DEFG \sim RSTU$ , name the corresponding angles and the corresponding sides.



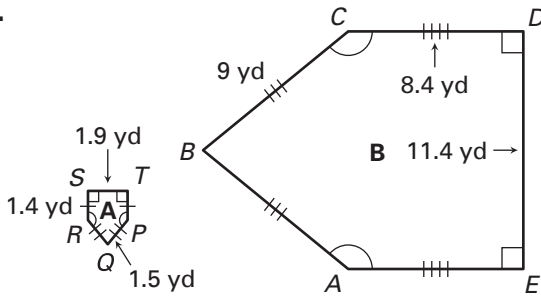
The figures are similar. Find the ratio of the lengths of the corresponding sides of figure A to figure B.



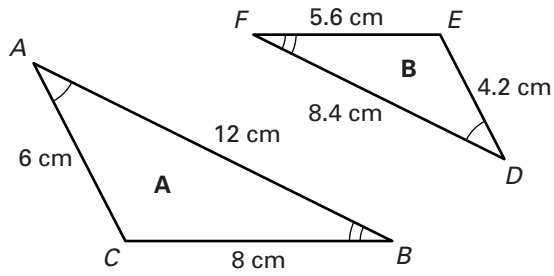
# Practice

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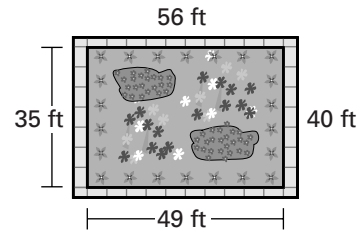
10.



11.



12. A rectangular garden is 49 feet long and 35 feet wide. The garden is bordered by a rectangular walkway that is 56 feet long and 40 feet wide as shown in the figure.



- Is the garden area similar to the rectangle formed by the bordering walkway? If so, find the ratio of the lengths of the corresponding sides of the garden to the walkway.
- Find the ratio of the perimeter of the garden to the perimeter of the walkway. How is it related to the ratio in part (a)?
- Find the ratio of the area of the garden to the area of the garden including the walkway.